

LIGHT INDUSTRIAL CASE STUDY

TRASH COMPACTOR



1 SITUATION

Equipment that is used to move waste operates in a very demanding environment. As garbage breaks down, chemicals are released and can combine with other materials to create caustic runoff. In addition to eroding metal parts on expensive equipment, this runoff can also damage rubber and even cause unhealthy situations for workers. Replacement is costly and time consuming.

A city municipality was experiencing corrosion issues in the tray that contains the hydraulic compacting ram and hoses of their trash compactor. The corrosion was accelerated by the caustic runoff from the waste. The City needed a solution that would resist the runoff, protect the hydraulic equipment and increase the overall maintenance cycle of the equipment. They needed the solution in a time efficient manner preventing downtime of the equipment.

2 PROCEDURE

The trash compactor was brought to the local LINE-X® shop after having been white blasted to remove rust and contaminants. The substrate was then cleaned and primed with SF5-15 to aid in bonding and to prevent rust from spreading under the LINE-X should the coating ever be pierced. After allowing the primer to flash, the compactor was coated with standard LINE-X XS-100 to a thickness of approximately 120 mils (one eighth of an inch) to help protect against impact and abrasion as well as resist corrosion from caustic runoff.

3 SOLUTION

LINE-X XS-100 was used to coat the trash compactor. The application was completed in eight hours and the equipment was back in service the next day with no change in daily operations.

4 RESULTS

The LINE-X coating process halted current corrosion and protected against future corrosion without requiring the purchase of new parts or equipment. The entire process was completed in eight hours allowing the equipment to go back in service the next day with no change in daily operations. The LINE-X product will extend the life of the city equipment many times over.

